SEP 0 7 2004 C

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

OR

Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16(e))
required)

Attorney Docket Num	ber 42P18598	
First Named Inventor Chris J. Newburn		
C	OMPLETE IF KNOWN	
Application Number	10/750,715	
Filing Date	December 31, 2003	
Art Unit	2186	
Examiner Name	Unassigned	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Processor and Memory Controller Capable Of Use In Computin Compressed Cache Lines' Worth Of Informa	
(Title of the Invention)	
the specification of which	
is attached hereto.	
OR	·
	10/750,715
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
				Yes No
				☐Yes ☐ No
				☐Yes ☐No
				☐Yes ☐No
·				☐Yes ☐No

Appointment of Practitioners:

I hereby appoint the practitioners associated with Customer Number: 45209 as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

Correspondence:

Direct all correspondence to Customer Number <u>08791</u>,

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE	OR FIRST INVENTOR:	A petition has	been filed for	this undersigned inventor
Full Name:		Chris J. l		
	(First, Middle	e [if any], Family Name	e (or Surname), a	nd Suffix [if any])
Inventor's Signatui	re Middle (Firm Middle)	m	Date _	8/12/04
Residence Sou	nth Beloit, Illinois USA		Citizenship	USA
	(City , State, Coun	try)		(Country)
Mailing Address	8034 Renee Drive			
	South Beloit, Illinois 61080	USA		•

Docket No. 42P18598

NAME OF SECO	OND INVENTOR:	een filed for this unde	rsigned inventor		
Full Name:		m Huggahalli			
	(First, Middle [if any], Famil	ly Name (or Surname), and	Suffix [if any])		
Inventor's Signat	ture	Date			
Residence Po	ortland, Oregon USA	Citizenship U			
	(City , State, Country)		(Country)		
Mailing Address	8110 NW Blue Pointe Lane				
	Portland, Oregon 97229 USA				
NAME OF THIR	D INVENTOR: ☐ A petition has b	een filed for this unde	rsigned inventor		
Full Name:	Hei	bert HJ Hum			
	(First, Middle [if any], Famil	y Name (or Surname), and	Suffix [if any])		
Inventor's Signat	ure	Date			
Residence Po	ortland, Oregon USA	Citizenship <u>U</u>			
	(City, State, Country)		(Country)		
Mailing Address	3924 NW Teakwood Place	· · · · · · · · · · · · · · · · · · ·	- W		
	Portland, Oregon 97229 USA				
Full Name:		een filed for this unde za Adl-Tabatabai	, o.g., o.g.		
	(First, Middle [if any], Famil		Suffix [if any])		
Inventor's Signat	ure	Date			
Ü					
Residence Sa	anta Clara, California USA	Citizenship U	ISA		
	(City, State, Country)		(Country)		
Mailing Address	2125 Quinn Avenue		••		
-	Santa Clara, California 95051 USA				
NAME OF FIFT	I INVENTOR:	een filed for this unde	rsigned inventor		
Full Name:	Anw	ar M. Ghuloum			
	(First, Middle [if any], Famil		Suffix [if any])		
Inventor's Signat		Date			
			. <u>-</u>		
Residence M	Iountain View, California USA	Citizenship U	ISA		
	(City, State, Country)		(Country)		
Mailing Address	547 McCarty Avenue		(-2)		
	· · · , · · · · · · · · · · · · · · · · · · ·				



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Attorney Docket Numb	er 42P18598	
First Named Inventor	Chris J. Newburn	
Ġ	OMPLETE IF KNOWN	
Application Number	10/750,715	
Filing Date	December 31, 2003	
Art Unit	2186	
Examiner Name	Unassigned	

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Processor and Memory Controller Capable Of Use In Computin Compressed Cache Lines' Worth Of Informa	
(Title of the Invention)	
the specification of which	
is attached hereto.	
OR	
was filed on (if applicable):	
or 12/31/2003 as United States Application Number PCT International Application Number	10/750,715
and was amended on	(if applicable)

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Prior	Foreign	Applic	ation	(2)

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
		ľ		Yes No
				☐Yes ☐No

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MAME OF SOLE	OR FIRST INVENTOR:	tion has been filed for	this undersigned inventor
Full Name:		hris J. Newburn	
	(First, Middle [if any], Fa	mily Name (or Surname), a	nd Suffix [if any])
Inventor's Signatu	ıre	Date	
Residence So	outh Beloit, Illinois USA	Citizenship	USA
	(City, State, Country)	•	(Country)
Mailing Address	8034 Renee Drive		•
	South Beloit, Illinois 61080 USA		

Docket No. 42P18598

NAME OF SECOND INVEN	ITOR: A petition has b	een filed for this und	lersigned inventor
Full Name:		m Huggahalli	
· · · · · · · · · · · · · · · · · · ·	(First, Middle [if any], Famil	·	id Suffix [if any])
Inventor's Signature	m Hvjeahalli	Date	8/22/04
Residence Portland, Oreg		Citizenship	USA
	(City, State, Country)		(Country)
· —	V Blue Pointe Lane		
Portland	, Oregon 97229 USA		
NAME OF THIRD INVENTO	DR:	een filed for this und	lersigned inventor
Full Name:	Не	rbert HJ Hum	
-	(First, Middle [if any], Fami	ly Name (or Surname), an	nd Suffix [if any])
Inventor's Signature		Date	
Residence Portland, Oreg	on USA	Citizenship	USA
	(City, State, Country)		(Country)
Mailing Address 3924 NV	V Teakwood Place		•
	Oregon 97229 USA		
	,		
NAME OF FOURTH INVEN		een filed for this und eza Adl-Tabatabai	
Inventor's Signature	(=,	Date	a cassa (ii anys)
oritor o digitature		Date	
Residence Santa Clara, C	alifornia USA	Citizenship	USA
<u>Jan. J. J. J.</u>	(City, State, Country)	OldZeriship	(Country)
Mailing Address 2125 Qu	inn Avenue		(Country)
	ara, California 95051 USA		
NAME OF FIFTH INVENTO		peen filed for this und	lersigned inventor
Full Name:	Aps	var M. Ghuloum	
	(First, Middle [if any], Fami		ad Suffix (if anyl)
Inventor's Signature	(Date	a saggis (ij unyj)
Residence Mountain View	w, California USA	Citizenship	USA
	(City, State, Country)	•	(Country)
Mailing Address 547 Mc	Carty Avenue		•
Mountai			



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Attorney Docket Number First Named Inventor Ch		per 42P18598	
		Chris J. Newburn	
COMPLETE IF KNOWN			
	Application Number	10/750,715	
	Filing Date	December 31, 2003	
	Art Unit	2186	
	Examiner Name	Unassigned	_

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or as United States Application Number PCT International Application Number	10/750,715	
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Prior Foreign Application(s):

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
				☐Yes ☐No
				☐Yes ☐No
		1		☐Yes ☐No
				☐Yes ☐No
				☐Yes ☐ No

Appointment of Practitioners:

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	., , , o o p an an an a a a a a a p p				
NAME OF SOL	.E OR FIRST INVENTOR:	on has been filed for this unde	rsigned inventor		
Full Name: _	Chris J. Newburn				
	(First, Middle [if any], Fan	nily Name (or Surname), and Suffix [ij	[any])		
Inventor's Signa	eture	Date			
Residence	South Beloit, Illinois USA	Citizenship USA			
•	(City, State, Country)		(Country)		
Mailing Address	s 8034 Renee Drive				
	South Beloit, Illinois 61080 USA				

NAME OF SECON	D INVENTOR:	filed for this und	dersigned inventor
Full Name:		luggahalli	
	(First, Middle [if any], Family Na	me (or Surname), a	nd Suffix [if any])
Inventor's Signature		_ Date	
Residence Portl	and, Oregon USA	Citizenship	USA
	(City, State, Country)		(Country)
Mailing Address	8110 NW Blue Pointe Lane		
	Portland , Oregon 97229 USA		
NAME OF THIRD	NVENTOR:	filed for this und	dersigned inventor
Full Name:		t HJ Hum	
	(First, Middle [if any], Family Na	me (or Surname), ai	
Inventor's Signature	And A. J. K	Date	8/17/2004
Residence Portl	and, Oregon USA	Citizenship	USA
	(City, State, Country)		(Country)
Mailing Address	3924 NW Teakwood Place	,	
	Portland, Oregon 97229 USA		
NAME OF FOURTH	Ali-Reza A	.dl-Tabatabai	
	(First, Middle [if any], Family Na	me (or Surname), ai	nd Suffix [if any])
Inventor's Signature		_ Date	****
Residence Santa	a Clara, California USA	Citizenship	USA
	(City, State, Country)		(Country)
Mailing Address	2125 Quinn Avenue		
	Santa Clara, California 95051 USA		
NAME OF FIFTH IN	Anwar N	I. Ghuloum	
	(First, Middle [if any], Family Na	` ,	nd Suffix [if any])
Inventor's Signature		_ Date	
Residence Mou	ntain View, California USA	Citizenship	
	(City, State, Country)		(Country)
Mailing Address	547 McCarty Avenue		
	Mountain View, California 94041 USA		

BEST AVAILABLE COPY

DECLARATION AND POWER OF TORNEY FOR PATENT APPLICATION

(37 CFR 1.63)

Declaration Submitted with Initial Filing

OR

Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

Attorney Docket Numi	ber 42P18598
First Named Inventor	Chris J. Newburn
	OMPLETE IF KNOWN
Application Number	10/750,715
Filing Date	December 31, 2003
Art Unit	2186
Examiner Name	Unassigned

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I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Processor and Memory Controller Capable Of Use In Computing System That Employs **Compressed Cache Lines' Worth Of Information** (Title of the Invention) the specification of which

is attached hereto.

OR

was filed on (if applicable):

as United States Application Number <u> 10/750.715</u> PCT International Application Number and was amended on (if applicable)

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				☐Yes ☐No
				☐Yes ☐ No
				Yes No
				☐Yes ☐No

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NAME OF SOLE	OR FIRST INVENTOR:	☐ A petition has been filed for the	nis undersigned inventor
Full Name:		Chris J. Newburn	
	(First, Middl	e [if any], Family Name (or Surname), and	d Suffix [if any])
Inventor's Signatu	re	Date	
Residence So	uth Beloit, Illinois USA	Citizenship	USA
	(City, State, Coun		(Country)
Mailing Address	8034 Rence Drive		(Country)
	South Beloit, Illinois 61080	USA	

NAME OF SECOND INVENTOR: A petition	nas been filed for this undersigned inven	tor
Full Name:	Ram Huygahalli	,
(First, Middle [if any],	Family Name (or Surname), and Suffix [if any])	
Inventor's Signature	Date	
Residence Portland, Oregon, USA		
(City, State, Country)	Citizenship USA	
Mailing Address 8110 NW Blue Pointe Lane	(Cou	ntry)
Portland, Oregon 97229 USA		
NAME OF THE		
	as been filed for this undersigned invento	or
Full Name:	Herbert HJ Hum	
(First, Middle [if any], I	family Name (or Surname), and Suffix [if any])	
Inventor's Signature	Date	
Residence Portland, Oregon USA	Citizenship USA	
(City, State, Country)		
	(Coun	ury)
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA		
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition ha	s been filed for this undersigned invento	
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition ha	s been filed for this undersigned invento -Reza Adl-Tabatabai	
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition has full Name: All Proceedings of Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition has full Name:	s been filed for this undersigned invento	
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: Full Name: Inventor's Signature Residence Santa Clara, California USA	is been filed for this undersigned invento i-Reza Adi-Tabatabai amily Name (or Surname), and Suffix [if any])	
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: All Properties of the Country of	is been filed for this undersigned invento i-Reza Adi-Tabatabai amily Name (or Surname), and Suffix [if any]) Date 9-1-2004	r
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition has fine fine fine fine fine fine fine fine	is been filed for this undersigned invento i-Reza Adl-Tabatabai amily Name (or Surname), and Suffix [if any]) Date 9-(-2004 Citizenship USA	r
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: All Provided (if ap), Find (if ap), Find (City, State, Country)	is been filed for this undersigned invento i-Reza Adl-Tabatabai amily Name (or Surname), and Suffix [if any]) Date 9-(-2004 Citizenship USA	r
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: All Proventor's Signature Residence Santa Clara, California USA (City, State, Country) Mailing Address 2125 Quinn Avenue Santa Clara, California 95051 USA NAME OF FIFTH INVENTOR: A petition ha	Seen filed for this undersigned inventors. -Reza Adi-Tabatabai	r · ·
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition have the petition of	is been filed for this undersigned inventoring. i-Reza Adi-Tabatabai amily Name (or Surname), and Suffix [if any]) Date 9-(-2004) Citizenship USA (Countert of the Counter of the Cou	r · ·
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition has	Seen filed for this undersigned inventors. -Reza Adi-Tabatabai	r · ·
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: All Prints, Middle [if alp)], Fourth inventor's Signature Residence Santa Clara, California USA (City, State, Country) Mailing Address 2125 Quinn Avenue Santa Clara, California 95051 USA NAME OF FIFTH INVENTOR: A petition has a petitio	is been filed for this undersigned inventoring. In Reza Adi-Tabatabai In amily Name (or Surname), and Suffix [if any]) Date 9-1-2004 Citizenship USA (Country) Surname (Country) (Country) Surname (Country) Citizenship undersigned inventoring (Country)	r · ·
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: All files, Middle (if any), Factorial Place Residence Santa Clara, California USA (City, State, Country) Mailing Address 2125 Quinn Avenue Santa Clara, California 95051 USA NAME OF FIFTH INVENTOR: A petition hat for the files of the properties of the properties of the properties of the potential points of the properties of the	Seen filed for this undersigned inventor inverse inver	ר (יייי)
Mailing Address 3924 NW Teakwood Place Portland, Oregon 97229 USA NAME OF FOURTH INVENTOR: A petition have the petition of	Seen filed for this undersigned inventor inverse. Seen filed for this undersigned inventor inventor inverse. Seen filed for this undersigned inventor i	ר (יייי)



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As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Processor and Memory C Comp	controller Capable Of Use In Computing cressed Cache Lines' Worth Of Informat	System That Employs ion
	(Title of the lovenilm)	
he specification of which is attached hereto. OR		
was filed on (if applicable or 12/31/2003		10/750,715
and was amended on		(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

Lacknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Docket No. 42P18598

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I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Appl	ical	ŒЩ	\$)
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Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
				☐Yes ☐No
				☐Yes ☐ No

Appointment of Practitioners:

I hereby appoint the practitioners associated with Customer Number: 45209 as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

if this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

Correspondence:

Direct all correspondence to Customer Number 08791,

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. NAME OF SOLE OR FIRST INVENTOR:

A petition has been filed for this undersigned inventor

Full Name:		Chris J. Newburn Family Name (or Surname), w	nd Suffix (if anyl)
Inventor's Signature		Date	
Residence Sou	h Beloit, Winois USA (City , State, Country)	Citizenship	USA (Country)
Mailing Address	8034 Renee Drive South Beloit, Illinois 61080 USA		

Docket No. 42P18598

I Name:	Ram Huggahalli (First, Middle fif anyl, Family Name (or Surname), and Suffix (if anyl)				
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